Robert R Twilley

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5350380/publications.pdf

Version: 2024-02-01

83 papers	7,076 citations	81900 39 h-index	64796 79 g-index
86 all docs	86 docs citations	86 times ranked	5968 citing authors

#	Article	IF	Citations
1	Deltaic floodplain wetland vegetation dynamics along the sediment surface elevation gradient and in response to disturbance from river flooding and hurricanes in Wax Lake Delta, Louisiana, USA. Geomorphology, 2022, 398, 108011.	2.6	8
2	Brazilian Mangroves: Blue Carbon Hotspots of National and Global Relevance to Natural Climate Solutions. Frontiers in Forests and Global Change, 2022, 4, .	2.3	14
3	Biomass allocation of tidal freshwater marsh species in response to natural and manipulated hydroperiod in coastal deltaic floodplains. Estuarine, Coastal and Shelf Science, 2022, 268, 107784.	2.1	2
4	Ecosystem-level carbon stocks and sequestration rates in mangroves in the CananÃ©ia-Iguape lagoon estuarine system, southeastern Brazil. Forest Ecology and Management, 2021, 479, 118553.	3.2	28
5	Aboveground biomass distributions and vegetation composition changes in Louisiana's Wax Lake Delta. Estuarine, Coastal and Shelf Science, 2021, 250, 107139.	2.1	13
6	Gaps, challenges, and opportunities in mangrove blue carbon research: a biogeographic perspective. , 2021, , 295-334.		2
7	Macroecological patterns of forest structure and allometric scaling in mangrove forests. Global Ecology and Biogeography, 2021, 30, 1000-1013.	5.8	32
8	Nitrogen Dynamics of Inundated Sediments in an Emerging Coastal Deltaic Floodplain in Mississippi River Delta Using Isotope Pairing Technique to Test Response to Nitrate Enrichment and Sediment Organic Matter. Estuaries and Coasts, 2021, 44, 1899-1915.	2.2	10
9	Heterotrophic nitrogen fixation in response to nitrate loading and sediment organic matter in an emerging coastal deltaic floodplain within the Mississippi River Delta plain. Limnology and Oceanography, 2021, 66, 1961-1978.	3.1	9
10	Benthic Nutrient Fluxes across Subtidal and Intertidal Habitats in Breton Sound in Response to River-Pulses of a Diversion in Mississippi River Delta. Water (Switzerland), 2021, 13, 2323.	2.7	2
11	Biogeochemical and Hydrological Variables Synergistically Influence Nitrate Variability in Coastal Deltaic Wetlands. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005737.	3.0	5
12	Quantifying storm surge and risk reduction costs: a case study for Lafitte, Louisiana. Climatic Change, 2020, 161, 201-223.	3.6	7
13	Simulating hydrological connectivity and water age within a coastal deltaic floodplain of the Mississippi River Delta. Estuarine, Coastal and Shelf Science, 2020, 245, 106995.	2.1	16
14	Benthic fluxes of dissolved oxygen and nutrients across hydrogeomorphic zones in a coastal deltaic floodplain within the Mississippi River delta plain. Biogeochemistry, 2020, 149, 115-140.	3.5	15
15	The Giving Delta- A â€œSystems Approachâ€•To a Consolidated and Sustainable Lower Mississippi River Delta. , 2020, , .		0
16	Improving the Transferability of Suspended Solid Estimation in Wetland and Deltaic Waters with an Empirical Hyperspectral Approach. Remote Sensing, 2019, 11, 1629.	4.0	29
17	Spatial variability of mangrove primary productivity in the neotropics. Ecosphere, 2019, 10, e02841.	2.2	36
18	Consequences of Mississippi River diversions on nutrient dynamics of coastal wetland soils and estuarine sediments: A review. Estuarine, Coastal and Shelf Science, 2019, 224, 209-216.	2.1	34

#	Article	IF	Citations
19	High-resolution mapping of biomass and distribution of marsh and forested wetlands in southeastern coastal Louisiana. International Journal of Applied Earth Observation and Geoinformation, 2019, 80, 257-267.	2.8	23
20	Assessment of the temporal evolution of storm surge across coastal Louisiana. Coastal Engineering, 2019, 150, 59-78.	4.0	14
21	Coastal Louisiana landscape and storm surge evolution: 1850â€“2110. Climatic Change, 2019, 157, 445-468.	3.6	12
22	Mangrove Biogeochemistry at Local to Global Scales Using Ecogeomorphic Approaches. , 2019, , 717-785.		11
23	Quantification of Swell Energy and Its Impact on Wetlands in a Deltaic Estuary. Estuaries and Coasts, 2019, 42, 68-84.	2.2	13
24	Integrating Imaging Spectrometer and Synthetic Aperture Radar Data for Estimating Wetland Vegetation Aboveground Biomass in Coastal Louisiana. Remote Sensing, 2019, 11, 2533.	4.0	20
25	Modeling hurricane-induced wetland-bay and bay-shelf sediment fluxes. Coastal Engineering, 2018, 135, 77-90.	4.0	35
26	Channelâ€Island Connectivity Affects Water Exposure Time Distributions in a Coastal River Delta. Water Resources Research, 2018, 54, 2212-2232.	4.2	43
27	Hydrodynamic storm surge model simplification via application of land to water isopleths in coastal Louisiana. Coastal Engineering, 2018, 137, 28-42.	4.0	11
28	Global controls on carbon storage in mangrove soils. Nature Climate Change, 2018, 8, 534-538.	18.8	216
29	Island Edge Morphodynamics along a Chronosequence in a Prograding Deltaic Floodplain Wetland. Journal of Coastal Research, 2018, 344, 806-817.	0.3	29
30	Coastal morphology explains global blue carbon distributions. Frontiers in Ecology and the Environment, 2018, 16, 503-508.	4.0	116
31	BioTIME: A database of biodiversity time series for the Anthropocene. Global Ecology and Biogeography, 2018, 27, 760-786.	5.8	289
32	Contribution of river floods, hurricanes, and cold fronts to elevation change in a deltaic floodplain, northern Gulf of Mexico, USA. Estuarine, Coastal and Shelf Science, 2017, 191, 188-200.	2.1	41
33	Productivity and Carbon Dynamics in Mangrove Wetlands. , 2017, , 113-162.		28
34	Optimizing Sediment Diversion Operations: Working Group Recommendations for Integrating Complex Ecological and Social Landscape Interactions. Water (Switzerland), 2017, 9, 368.	2.7	58
35	Enhanced terrestrial carbon preservation promoted by reactive iron in deltaic sediments. Geophysical Research Letters, 2016, 43, 1149-1157.	4.0	82
36	Co-evolution of wetland landscapes, flooding, and human settlement in the Mississippi River Delta Plain. Sustainability Science, 2016, 11, 711-731.	4.9	120

#	Article	IF	Citations
37	A Field Study of How Wind Waves and Currents May Contribute to the Deterioration of Saltmarsh Fringe. Estuaries and Coasts, 2016, 39, 935-950.	2.2	21
38	Fine root productivity varies along nitrogen and phosphorus gradients in high-rainfall mangrove forests of Micronesia. Hydrobiologia, 2015, 750, 69-87.	2.0	62
39	Phytoplankton Community Shifts and Harmful Algae Presence in a Diversion Influenced Estuary. Estuaries and Coasts, 2015, 38, 2213-2226.	2.2	30
40	Nutrient Biogeochemistry During the Early Stages of Delta Development in the Mississippi River Deltaic Plain. Ecosystems, 2014, 17, 327-343.	3.4	37
41	Vegetation and Soil Dynamics of a Louisiana Estuary Receiving Pulsed Mississippi River Water Following Hurricane Katrina. Estuaries and Coasts, 2013, 36, 665-682.	2.2	38
42	Allocation of biomass and net primary productivity of mangrove forests along environmental gradients in the Florida Coastal Everglades, USA. Forest Ecology and Management, 2013, 307, 226-241.	3.2	157
43	Leaf Gas Exchange and Nutrient Use Efficiency Help Explain the Distribution of Two Neotropical Mangroves under Contrasting Flooding and Salinity. International Journal of Forestry Research, 2013, 2013, 1-10.	0.8	4
44	Exploring the role of organic matter accumulation on delta evolution. Journal of Geophysical Research, 2012, 117, .	3.3	35
45	The Role of the Everglades Mangrove Ecotone Region (EMER) in Regulating Nutrient Cycling and Wetland Productivity in South Florida. Critical Reviews in Environmental Science and Technology, 2011, 41, 633-669.	12.8	64
46	International Year of Deltas 2013: A proposal. Eos, 2011, 92, 340-341.	0.1	26
47	Natural Processes in Delta Restoration: Application to the Mississippi Delta. Annual Review of Marine Science, 2011, 3, 67-91.	11.6	246
48	A tidal creek water budget: Estimation of groundwater discharge and overland flow using hydrologic modeling in the Southern Everglades. Estuarine, Coastal and Shelf Science, 2011, 93, 438-448.	2.1	22
49	Nutrient stoichiometry, freshwater residence time, and nutrient retention in a river-dominated estuary in the Mississippi Delta. Hydrobiologia, 2011, 658, 41-54.	2.0	31
50	Patterns of Root Dynamics in Mangrove Forests Along Environmental Gradients in the Florida Coastal Everglades, USA. Ecosystems, 2011, 14, 1178-1195.	3.4	145
51	Salinity and Chlorophyll a as Performance Measures to Rehabilitate a Mangrove-Dominated Deltaic Coastal Region: the CiÃ©naga Grande de Santa Martaâ€“Pajarales Lagoon Complex, Colombia. Estuaries and Coasts, 2011, 34, 1-19.	2.2	30
52	Sediment and Nutrient Deposition Associated with Hurricane Wilma in Mangroves of the Florida Coastal Everglades. Estuaries and Coasts, 2010, 33, 45-58.	2.2	127
53	Sediment and Nutrient Tradeoffs in Restoring Mississippi River Delta: Restoration vs Eutrophication. Journal of Contemporary Water Research and Education, 2009, 141, 39-44.	0.7	35
54	Is It Feasible to Build New Land in the Mississippi River Delta?. Eos, 2009, 90, 373-374.	0.1	178

#	Article	IF	Citations
55	Consequences of Climate Change on the Ecogeomorphology of Coastal Wetlands. Estuaries and Coasts, 2008, 31, 477-491.	2.2	280
56	Mangrove production and carbon sinks: A revision of global budget estimates. Global Biogeochemical Cycles, 2008, 22, .	4.9	812
57	Advances and limitations of individual-based models to analyze and predict dynamics of mangrove forests: A review. Aquatic Botany, 2008, 89, 260-274.	1.6	124
58	Airborne Laser Scanning Quantification of Disturbances from Hurricanes and Lightning Strikes to Mangrove Forests in Everglades National Park, USA. Sensors, 2008, 8, 2262-2292.	3.8	53
59	Restoration of the Mississippi Delta: Lessons from Hurricanes Katrina and Rita. Science, 2007, 315, 1679-1684.	12.6	644
60	Belowground decomposition of mangrove roots in Florida coastal everglades. Estuaries and Coasts, 2007, 30, 491-496.	2.2	53
61	Evaluating the relative contributions of hydroperiod and soil fertility on growth of south Florida mangroves. Hydrobiologia, 2006, 569, 311-324.	2.0	109
62	Responses of neotropical mangrove seedlings grown in monoculture and mixed culture under treatments of hydroperiod and salinity. Hydrobiologia, 2006, 569, 325-341.	2.0	52
63	Spatial and temporal patterns of aboveground net primary productivity (ANPP) along two freshwater-estuarine transects in the Florida Coastal Everglades. Hydrobiologia, 2006, 569, 459-474.	2.0	120
64	Flux of organic carbon in a riverine mangrove wetland in the Florida Coastal Everglades. Hydrobiologia, 2006, 569, 505-516.	2.0	71
65	Mangrove zonation in the dry life zone of the Gulf of Fonseca, Honduras. Estuaries and Coasts, 2006, 29, 751-764.	2.2	46
66	Woody Debris in the Mangrove Forests of South Florida¹. Biotropica, 2005, 37, 9-15.	1.6	63
67	Structure of a unique inland mangrove forest assemblage in fossil lagoons on the Caribbean Coast of Mexico. Wetlands Ecology and Management, 2005, 13, 111-122.	1.5	16
68	Nitrogen and phosphorus transport between Fourleague Bay, LA, and the Gulf of Mexico: the role of winter cold fronts and Atchafalaya River discharge. Estuarine, Coastal and Shelf Science, 2003, 57, 1065-1078.	2.1	21
69	A simulation model of organic matter and nutrient accumulation in mangrove wetland soils. Biogeochemistry, 1999, 44, 93-118.	3.5	149
70	The Potential Use of Mangrove Forests as Nitrogen Sinks of Shrimp Aquaculture Pond Effluents: The Role of Denitrification. Journal of the World Aquaculture Society, 1999, 30, 12-25.	2.4	71
71	Patterns of Mangrove Forest Structure and Soil Nutrient Dynamics along the Shark River Estuary, Florida. Estuaries and Coasts, 1999, 22, 955.	1.7	187
72	Adapting an Ecological Mangrove Model to Simulate Trajectories in Restoration Ecology. Marine Pollution Bulletin, 1999, 37, 404-419.	5.0	123

#	Article	IF	Citations
73	A simulation model of organic matter and nutrient accumulation in mangrove wetland soils. Biogeochemistry, 1999, 44, 93-118.	3.5	42
74	A gap dynamic model of mangrove forest development along gradients of soil salinity and nutrient resources. Journal of Ecology, 1998, 86, 37-51.	4.0	204
75	A water budget and hydrology model of a basin mangrove forest in Rookery Bay, Florida. Marine and Freshwater Research, 1998, 49, 309.	1.3	60
76	Different Kinds of Mangrove Forests Provide Different Goods and Services. Global Ecology and Biogeography Letters, 1998, 7, 83.	0.6	386
77	Title is missing!. Hydrobiologia, 1997, 356, 73-79.	2.0	33
78	Litter dynamics in riverine mangrove forests in the Guayas River estuary, Ecuador. Oecologia, 1997, 111, 109-122.	2.0	192
79	The relative role of denitrification and immobilization in the fate of inorganic nitrogen in mangrove sediments (Terminos Lagoon, Mexico). Limnology and Oceanography, 1996, 41, 284-296.	3.1	136
80	The Growth of Submersed Macrophytes under Experimental Salinity and Light Conditions. Estuaries and Coasts, 1990, 13, 311.	1.7	53
81	Recent Accretion in Mangrove Ecosystems Based on 137 Cs and 210 Pb. Estuaries and Coasts, 1989, 12, 284.	1.7	157
82	Coupling of mangroves to the productivity of estuarine and coastal waters. Lecture Notes on Coastal and Estuarine Studies, 1988, , 155-180.	0.2	22
83	Current Methods to Evaluate Net Primary Production and Carbon Budgets in Mangrove Forests. Soil Science Society of America Book Series, 0, , 243-288.	0.3	13